

**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 1875.3910000

First Inventor Kevin Lee Miller

Title System and Method For Mapping Pulse Widths In a Digital Modulator

Express Mail Label No.

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

- 1.
- ☒
- Fee Transmittal Form (e.g., PTO/SB/17)
-
- (Submit an original, and a duplicate for fee processing)

- 2.
- ☐
- Applicant claims small entity status.
-
- See 37 CFR 1.27.

- 3.
- ☒
- Specification [Total Pages
- 22
-]
-
- (preferred arrangement set forth below)
-
- Descriptive title of the Invention
-
- Cross Reference to Related Applications
-
- Statement Regarding Fed sponsored R & D
-
- Reference to sequence listing, a table,
-
- or a computer program listing appendix
-
- Background of the Invention
-
- Brief Summary of the Invention
-
- Brief Description of the Drawings (if filed)
-
- Detailed Description
-
- Claim(s)
-
- Abstract of the Disclosure

- 4.
- ☒
- Drawing(s) (35 U.S.C. 113) [Total Sheets
- 8
-]

5. Oath or Declaration [Total Pages
- 2
-]
-
- a.
- ☒
- Newly executed (original or copy)
-
- b.
- ☐
- Copy from a prior application (37 CFR 1.63(d))
-
- (for continuation/divisional with Box 18 completed)

- i.
- ☐
- DELETION OF INVENTOR(S)**
-
- Signed statement attached deleting inventor(s)
-
- named in the prior application, see 37 CFR
-
- 1.63(d)(2) and 1.33(b).

- 6.
- ☒
- Application Data Sheet. See 37 CFR 1.76.

- 7.
- ☐
- CD-ROM or CD-R in duplicate, large table or Computer Program
-
- (Appendix)

8. Nucleotide and/or Amino Acid Sequence Submission
-
- (if applicable, all necessary)

- a.
- ☐
- Computer Readable Form (CRF)
-
- b. Specification Sequence Listing on:
-
- i.
- ☐
- CD-ROM or CD-R (2 copies); or
-
- ii.
- ☐
- paper
-
- c.
- ☐
- Statements verifying identity of above copies

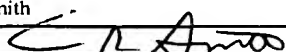
ACCOMPANYING APPLICATION PARTS

- 9.
- ☒
- Assignment Papers (cover sheet & document(s))
-
- 10.
- ☐
- 37 CFR 3.73(b) Statement
- ☐
- Power of Attorney
-
- (when there is an assignee)
-
- 11.
- ☐
- English Translation Document (if applicable)
-
- 12.
- ☐
- Information Disclosure Statement (IDS)/PTO-1449
- ☐
- Copies of IDS Citations
-
- 13.
- ☐
- Preliminary Amendment
-
- 14.
- ☐
- Return Receipt Postcard (MPEP 503)
-
- (Should be specifically itemized)
-
- 15.
- ☐
- Certified Copy of Priority Document(s)
-
- (if foreign priority is claimed)
-
- 16.
- ☐
- Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
-
- 17.
- ☒
- Other:
- Authorization under 37 C.F.R. § 1.136(a)(3)
-
- ☒
- Other:
- The name of the assignee is: Broadcom Corporation

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☒ Continuation-in-Part (CIP) of prior application No: 10/642,736
Prior application information: Examiner n/a Art Unit: n/aFor CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.**19. CORRESPONDENCE ADDRESS**☒ Customer Number 26111or ☐ Correspondence address below

NAME	STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.			
	Attorneys at Law			
ADDRESS				
CITY		STATE		ZIP CODE
COUNTRY		TELEPHONE		FAX

NAME (Print/Type)	Evan R. Smith	Registration No. (Attorney/Agent)	35,683
SIGNATURE		Date	1/30/04

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$)810.00

Complete if Known

Application Number	To Be Assigned
Filing Date	Her with (January 30, 2004)
First Named Inventor	K vin Le MILLER
Examiner Name	To Be Assigned
Art Unit	To Be Assigned
Attorney Docket No.	1875.3910000/RES/ERS

METHOD OF PAYMENT (check all that apply)

☐ Check ☒ Credit card ☐ Money Order ☒ Other** ☐ None
** Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036.

☐ Deposit Account
Deposit Account Number 19-0036
Deposit Account Name: Sterne, Kessler, Goldstein & Fox P.L.L.C.

The Commissioner is authorized to: (check all that apply)

- ☐ Charge fee(s) indicated below ☐ Credit any over payments
☐ Charge any additional fee(s) during the pendency of this application
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
1001	770	2001	385	Utility filing fee	770.00
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1105	160	2005	80	Provisional filing fee	

SUBTOTAL (1) (\$)770.00

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Extra	Fee from below	Fee Paid
Total Claims <u>16</u> - 20** =	X	= 0
Indep. Claims <u>2</u> - 3** =	X	= 0
Multiple Dependent		=0

Large Entity Fee Code	Small Entity Fee Code	Fee (\$)	Fee (\$)	Fee Description
1202	2202	18	9	Claims in excess of 20
1201	2201	86	43	Independent claims in excess of 3
1203	2203	290	145	Multiple dependent claim, if not paid
1204	2204	86	43	**Reissue independent claims over original patent
1205	2205	18	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)0

**or number previously paid, if greater; For Reissue, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge - late filing fee or oath	
1502	50	2052	25	Surcharge-late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	40.00
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify) _____

* Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$)40.00

SUBMITTED BY

Name (Print/Type)

Evan R. Smith

Registration No.
(Attorney/Agent)

35,683

Complete (if applicable)

Telephone 202-371-2600

Signature

Date

1/30/04

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Kevin Lee MILLER

Appl. No. To Be Assigned

Filed: (Herewith) January 30, 2004

For: **System and Method For Mapping
Pulse Widths In A Digital
Modulator**

Confirmation No. To Be Assigned

Art Unit: To Be Assigned

Examiner: To Be Assigned

Atty. Docket: 1875.3910000/RES/ERS

**Authorization To Treat A Reply As Incorporating An Extension Of
Time Under 37 C.F.R. § 1.136(a)(3)**

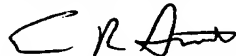
Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Evan R. Smith
Attorney for Applicant
Registration No. 35,683

Date: 1/30/04

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600



Robert Greene Sterne
Edward J. Kessler
Jorge A. Goldstein
David K.S. Cornwell
Robert W. Esmond
Tracy-Gene G. Durkin
Michele A. Cimbala
Michael B. Ray
Robert E. Sokohl
Eric K. Steffe
Michael Q. Lee
Steven R. Ludwig
John M. Covert
Linda E. Alcorn
Robert C. Millonig
Lawrence B. Bugaisky
Donald J. Featherstone
Michael V. Messinger

Judith U. Kim
Timothy J. Shea, Jr.
Patrick E. Garrett
Heidi L. Kraus
Edward W. Yee
Albert L. Ferro
Donald R. Banowitz
Peter A. Jackman
Molly A. McCall
Teresa U. Medler
Jeffrey S. Weaver
Kendrick P. Patterson
Vincent L. Capuano
Eldora Ellison Floyd
Thomas C. Fiala
Brian J. Del Buono
Virgil Lee Beaston
Kimberly N. Reddick

Theodore A. Wood
Elizabeth J. Haanes
Bruce E. Chalker
Joseph S. Ostroff
Frank R. Cottingham
Christine M. Uhler
Rae Lynn Prengaman
Jane Shershenovich
Lawrence J. Carroll
George S. Bardmesser
Daniel A. Klein
Rodney G. Maze
Jason D. Eisenberg
Michael D. Specht
Andrea J. Kamage
Tracy L. Muller
Jon E. Wright
LuAnne M. Yuricek

John J. Figueroa
Ann E. Summerfield
Registered Patent Agents*
Karen R. Markowicz
Nancy J. Leith
Helene C. Carlson
Gaby L. Longworth
Matthew J. Dowd
Aaron L. Schwartz
Angelique G. Uy
Mary B. Tung
Katrina Y. Pei
Bryan L. Skelton
Robert A. Schwartzman
Timothy A. Doyle
Jennifer R. Mahalingappa

Teresa A. Colella
Jeffrey S. Lundgren
Victoria S. Rutherford
Eric D. Hayes

Of Counsel
Kenneth C. Bass III
Evan R. Smith

*Admitted only in Maryland
*Admitted only in Virginia
*Practice Limited to
Federal Agencies

January 30, 2004

WRITER'S DIRECT NUMBER:
(202) 772-8807

INTERNET ADDRESS:
esmith@skgf.com

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Mail Stop Patent Application

Re: U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)
Appl. No. *To Be Assigned*; Filed: (Herewith) January 30, 2004
For: **System and Method For Mapping Pulse Widths In A Digital Modulator**

Inventors: Kevin Lee MILLER
Our Ref: 1875.3910000/RES/ERS

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

1. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
2. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3);
3. Recordation Form Cover Sheet;
4. An original executed Assignment to **Broadcom Corporation**, recordation of which is hereby respectfully requested;
5. PTO Fee Transmittal (Form PTO/SB/17);
6. U.S. Utility Patent Application entitled:

System and Method For Mapping Pulse Widths In A Digital Modulator

and naming as inventor:

Kevin Lee MILLER

the application consisting of:

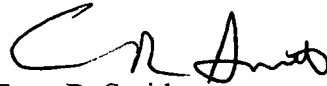
- a. An Application Data Sheet (37 C.F.R. § 1.76);
 - b. A specification containing:
 - i. 17 pages of description prior to the claims;
 - ii. 4 pages of claims (16 claims);
 - iii. a one (1) page abstract;
 - c. 8 sheet(s) of drawings: (Figures 1-7i);
 - d. An original executed Declaration;
7. Form PTO-2038 Credit Card Payment Form; and
 8. Two (2) return postcards.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Evan R. Smith
Attorney for Applicant
Registration No. 35,683

RES/ERS/tis
Enclosures
::ODMA\MHODMA\SKGF_DC1;224872;1